

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/606,409	06/25/2003	Samuel M. Shaolian	14307-4	5663
	7590 03/26/200 /ILLIAMS LLP	EXAMINER		
INTELLECTU	AL PROPERTY DEPA	REIMERS, ANNETTE R		
1900 K STREE SUITE 1200	T, N.W.	ART UNIT	PAPER NUMBER	
WASHINGTO	N, DC 20006-1109	3733	· ·-	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/26/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

11	R A
u	u
v	

	Application No.	Applicant(s)				
Office Action Summers	10/606,409	SHAOLIAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Annette R. Reimers	3733				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on 08 Ja	nuan/ 2007	·				
· <u>=</u>	, 					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
·	ripano gasylo, ross sie. Fil, ro	0.0.2.0.				
Disposition of Claims						
4) Claim(s) is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	n from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-17</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner						
10)⊠ The drawing(s) filed on <u>25 June 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
The bath of declaration is objected to by the Ex	animer. Note the attached Office	Action of 10111 P 10-132.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)		•				
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date 3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) Other:						

Art Unit: 3733

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Eckman (US Patent Number 6,726,690).

Eckman discloses a various embodiments of an enucleation device comprising a proximal end, a distal end comprising a cutting cap, e.g. 23, comprising a plurality of deformable blades, 26, and a flexible shaft, e.g. 18, between the proximal end and the cutting cap, wherein the shaft comprises an axial guidewire lumen between the proximal end and the distal end, where the plurality of deformable blades can cut material in a space when the blades not deformed, i.e. the blades are partially retracted, after accessing the space through a passage while the blades are deformed and where the passage has a smaller cross-sectional area than the lateral cross-sectional area of the undeformed blades while the blades are cutting the material (see figures 1-7, column 5, lines 15-26 and column 8, lines 28-39),

Application/Control Number: 10/606,409

Art Unit: 3733

With regard to the statement of intended use and other functional statements, e.g. where the plurality of deformable blades can cut material in a space when the blades not deformed, after accessing the space through a passage while the blades are deformed, they do not impose any structural limitations on the claims distinguishable over Eckman, which is capable of being used as claimed if one so desires to do so. *In re Casey*, 152 USPQ 235 (CCPA 1967) and *In re Otto*, 136 USPQ 458, 459 (CCPA 1963). Furthermore, the law of anticipation does not require that the reference "teach" what the subject patent teaches, but rather it is only necessary that the claims under attack "read on" something in the reference. Kalman v. Kimberly Clark Corp., 218 USPQ 781 (CCPA 1983). Furthermore, the manner in which a device is intended to be employed does not differentiate the claimed apparatus from prior art apparatus satisfying the claimed structural limitations. Ex parte Masham, 2 USPQ2d 1647 (1987).

Eckman discloses a method of cutting material in a space, comprising providing the enucleation device of claim 1, accessing the space with the device, actuating the device, thereby effecting cutting of the material, deforming the blades before actuating the device, and accessing the space through a passage while the blades are deformed, where the passage has a smaller cross-sectional area than the lateral cross-sectional area of the undeformed blades while the blades are cutting the material, where the passage is curved, wherein advancing and retracting the cutting device in the space to cut additional material, where accessing the space comprises advancing the cutting device over a guide wire, e.g. 21, where the material cut is selected from the group consisting of intervertebral disk and vertebral body endplate material, where accessing

the space comprises advancing the device through a transpedicular access passage in a vertebra (see column 5, lines 15-26 and column 9, lines 5-64).

Response to Arguments

Applicant's arguments filed on January 08, 2007 have been fully considered, but they are not persuasive. Examiner respectfully disagrees with applicant regarding the Eckman reference. Each of the bio-compatible metals disclosed in Eckman, i.e., stainless steel, titanium, nickel, and metal alloy, for the formation of blades 26 can be deformed from its original structure when enough force is applied. In addition, Eckman states that these are <u>preferable</u> materials, but "the blades 26 can be formed of other materials" (see column 7, lines 34-37). For example, considering that Eckman discloses the use of a metal alloy to form the blades, the shape memory metal alloy Nitinol (TiNi) could be used to form the blades. Moreover, applicant is claiming deformable blades not elastically deformable blades. In an alternate interpretation, the blades can be considered deformed, i.e., changed in form/transformed, when they deform from their original position to a radially extended position.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

Application/Control Number: 10/606,409

Art Unit: 3733

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later

Page 5

than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Annette R. Reimers whose telephone number is (571) 272-7135. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo Robert can be reached on (571) 272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AR AK

JPE AMINER